UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/943,822	08/31/2001	Michael Gill	1662-40200 (P00-3357)	1422

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EXAMINER
REVAK, CHRISTOPHER A

ART UNIT	PAPER NUMBER
2131	

DATE MAILED: 11/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	09/943,822	GILL ET AL.
	Examiner	**Art Unit**	
	Christopher A. Revak	2131	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *24 August 2005*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-5,7,10-16,19-21,24,26-32 and 35-37* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-5,7,10-16,19-21,24,26-32, and 35-37* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *31 August 2001* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

DETAILED ACTION

Response to Arguments

1.   Applicant's arguments with respect to claims 1-5,7,10-16,19-21,24,26-32, and

35-37 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

3.   Claims 1,2,4,7,8,10-16,19,20,24,26-32, and 35-37 are rejected under 35 U.S.C.

103(a) as being unpatentable over Burns et al, U.S. Patent 6,405,315 in view of Ross et

al, U.S. Patent 5,553,139.

As per claims 1 and 19, the teachings of Burns et al disclose of a method and

system for transferring data between a client (computer) and a storage device which are

both connected across a network. The data is encrypted by a client (computer) and

then transmitted across a network to the storage device where it is then stored on the

storage device (col. 3, lines 10-24). The examiner is interpreting the storage device of

Burns et al to be that of non-volatile since non-volatile is used for storing data that does

not lose the data when power is removed from the device. The teachings of Burns et al

disclose of retrieving the encrypted data from the storage device and transmitting the

encrypted data to the client (computer)(col. 3, lines 25-47), however the teachings of

Burns et al fail to disclose of a storage device encrypting the retrieved with a

predetermined key to produce twice encrypted data. It is disclosed by Ross et al of a

extraction agent (storage device) encrypting the retrieved with a predetermined key to

produce twice encrypted data (col. 3, lines 17-21 & 35-40). It would have been obvious

to a person of ordinary skill in the art at the time of the invention to have been motivated

to encrypt data twice to further enhance protection. The teachings of Ross et al recite

of motivational benefits for encrypting data twice by disclosing that licenses are

protected by disabling them while in transit to an extraction agent (col. 2, lines 8-12 and

col. 4, lines 55-57). It is obvious that the teachings of Burns et al would have been

further enhanced by doubly encrypting content retrieved from a storage device as is

disclosed by Ross et al as a means of further protecting data by disabling the content

while it is being transferred.

As per claims 2 and 20, it is disclosed by Burns et al that a header is created

containing the destination information pertaining to the storage device and transmitting

the encrypted data with the header (col. 6, lines 21-33 & 38-41).

As per claim 4, the teachings of Burns et al disclose of the use of a header used

in a network protocol such as an Ethernet (col. 6, lines 21-33 & 38-41) and it is

interpreted by the examiner that the header is removed prior to storing the encrypted

data on the storage device because a feature of protocols is to contain information that

is appended to the contents, or packets, such as destination and source address, error

checking codes so that the information is properly received and various other fields and upon acceptance, that information is then discarded.

As per claim 7, the teachings of Burns et al disclose of receiving the encrypted data at the client (computer) and decrypting the received encrypted data (col. 3, lines 16-20).

As per claim 24, Burns et al disclose of transmitting the encrypted data to the client (computer) with a header that provides routing information pertaining to the client (computer)(col. 6, lines 21-33 & 38-41).

As per claims 10 and 26, Ross et al discloses of twice decrypting the twice decrypted data (col. 3, lines 17-22 and col. 7, lines 23-31). The teachings of Ross et al are relied upon for the use of twice encrypting data, please refer above for the motivational benefits of applying the teachings of Ross to the teachings of Burns.

As per claims 11 and 27, the teachings of Burns et al disclose of a method and system for transferring data between a client (computer) and a storage device which are both connected across a network. The encrypted data is retrieved from the storage device and transmitted across the network from the storage device to the client (computer). The encrypted data is received by the client (computer) and then is decrypted (col. 3, lines 10-24 & 25-47). The examiner is interpreting the storage device of Burns et al to be that of non-volatile since non-volatile is used for storing data that does not lose the data when power is removed from the device. The teachings of Burns et al disclose of retrieving the encrypted data from the storage device and transmitting the encrypted data to the client (computer)(col. 3, lines 25-47), however the teachings of

Burns et al fail to disclose of a storage device encrypting the retrieved with a predetermined key to produce twice encrypted data. It is disclosed by Ross et al of a extraction agent (storage device) encrypting the retrieved with a predetermined key to produce twice encrypted data which is accordingly decrypted to recover the data (col. 3, lines 17-22 & 35-40 and col. 7, lines 23-31). It would have been obvious to a person of ordinary skill in the art at the time of the invention to have been motivated to encrypt data twice to further enhance protection. The teachings of Ross et al recite of motivational benefits for encrypting data twice by disclosing that licenses are protected by disabling them while in transit to an extraction agent (col. 2, lines 8-12 and col. 4, lines 55-57). It is obvious that the teachings of Burns et al would have been further enhanced by doubly encrypting content retrieved from a storage device as is disclosed by Ross et al as a means of further protecting data by disabling the content while it is being transferred.

As per claims 12 and 28, Burns et al disclose of transmitting the encrypted data to the client (computer) with a header that provides routing information pertaining to the client (computer)(col. 6, lines 21-33 & 38-41). The teachings of Ross et al are relied upon for the use of twice encrypting data, please refer above for the motivational benefits of applying the teachings of Ross to the teachings of Burns.

As per claims 13 and 29, the teachings of Burns et al disclose of receiving the encrypted data at the client (computer) and decrypting the received encrypted data (col. 3, lines 16-20). The teachings of Burns et al disclose of the use of a header used in a network protocol such as an Ethernet (col. 6, lines 21-33 & 38-41) and it is interpreted

by the examiner that the header is removed prior to storing the encrypted data on the

storage device because a feature of protocols is to contain information that is appended

to the contents, or packets, such as destination and source address, error checking

codes so that the information is properly received and various other fields and upon

acceptance, that information is then discarded. The teachings of Ross et al are relied

upon for the use of twice encrypting data, please refer above for the motivational

benefits of applying the teachings of Ross to the teachings of Burns.

As per claims 14 and 30, Burns et al discloses of the data is encrypted by a client

(computer) and then transmitted across a network to the storage device where it is then

stored on the storage device (col. 3, lines 10-24).

As per claims 15 and 31, it is disclosed by Burns et al that a header is created

containing the destination information pertaining to the storage device and transmitting

the encrypted data with the header (col. 6, lines 21-33 & 38-41).

As per claims 16 and 32, the teachings of Burns et al disclose of the use of a

header used in a network protocol such as an Ethernet (col. 6, lines 21-33 & 38-41) and

it is interpreted by the examiner that the header is removed prior to storing the

encrypted data on the storage device because a feature of protocols is to contain

information that is appended to the contents, or packets, such as destination and source

address, error checking codes so that the information is properly received and various

other fields and upon acceptance, that information is then discarded.

As per claim 35, the teachings of Burns et al disclose of a method for transferring

data between a client (computer) and a storage device which are both connected

across a network. The client initiates a command for data and it is then encrypted by a

client (computer) for transmission across a network to the storage device where it is

then stored on the storage device (col. 3, lines 10-25). The examiner is interpreting the

storage device of Burns et al to be that of non-volatile since non-volatile is used for

storing data that does not lose the data when power is removed from the device. The

teachings of Burns et al disclose of retrieving the encrypted data from the storage

device and transmitting the encrypted data to the client (computer)(col. 3, lines 25-47),

however the teachings of Burns et al fail to disclose of a storage device encrypting the

retrieved with a predetermined key to produce twice encrypted data. It is disclosed by

Ross et al of a extraction agent (storage device) encrypting the retrieved with a

predetermined key to produce twice encrypted data (col. 3, lines 17-21 & 35-40). It

would have been obvious to a person of ordinary skill in the art at the time of the

invention to have been motivated to encrypt data twice to further enhance protection.

The teachings of Ross et al recite of motivational benefits for encrypting data twice by

disclosing that licenses are protected by disabling them while in transit to an extraction

agent (col. 2, lines 8-12 and col. 4, lines 55-57). It is obvious that the teachings of

Burns et al would have been further enhanced by doubly encrypting content retrieved

from a storage device as is disclosed by Ross et al as a means of further protecting

data by disabling the content while it is being transferred.

As per claim 36, it is disclosed by Burns et al of encrypting data by a client

(computer) with a (dynamically generated session) key for transmission across a

network to the storage device where it is then stored on the storage device (col. 3, lines
10-25 & 35-39).

As per claim 37, the teachings of Burns et al disclose of receiving the encrypted
data at the client (computer) and decrypting the received encrypted data with a
(dynamically generated session) key (col. 3, lines 16-20 & 35-39). The teachings of
Ross et al are relied upon for the use of twice encrypting data, please refer above for
the motivational benefits of applying the teachings of Ross to the teachings of Burns.

4.   Claims 3,5, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable
over Burns et al, U.S. Patent 6,405,315 in view of Ross et al, U.S. Patent 5,553,139 in
further view of Collins et al, U.S. Patent 6,378,072.

As per claims 3,5, and 21, the teachings of Burns et al discloses of a header that
is created containing the destination information pertaining to the storage device and
transmitting the encrypted data with the header (col. 6, lines 21-33 & 38-41). The
teachings of Burns et al and Ross et al are silent in disclosing of the header containing
cryptographic metrics for the data and using the cryptographic metrics to validate the
integrity/authenticity of the data prior to taking action on the data. The teachings of
Collins et al disclose of header containing a digital signature (cryptographic metrics) for
the data and using the digital signature (cryptographic metrics) to validate the
integrity/authenticity of the data prior to taking action on the data (col. 2, lines 48-52 &
60-64). It would have been obvious to a person of ordinary skill in the art at the time of
the invention to have been motivated to apply means to check for the integrity and

authenticity of data items. Collins et al recites motivation for the use of digital signatures by disclosing that application programs can't be maliciously altered or changed with fraudulent programs (col. 3, lines 8-9). The teachings of Burns et al are concerned with securely storing data on network storage devices and it is obvious that the teachings of Collins et al offer further measures to ensure the secure storage of data by using digital signatures to ensure the integrity and authenticity of the data.

Conclusion

5.   Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6.   Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher A. Revak whose telephone number is 571-272-3794. The examiner can normally be reached on Monday-Friday, 6:30am-3:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
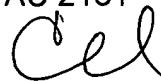
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher Revak
Primary Examiner
AU 2131

CR

November 10, 2005